

WHAT IS CLAIMED IS:

A method for controlling a paging alert level of a mobile station in a mobile communication system, comprising the steps of:

setting information of a type and a level of a paging alert tone of the mobile station in a broadcasting channel (BCH) message and transmitting the BCH message from a base station to every mobile station within a cell of the base station; and

generating, in the mobile station, a paging alert tone according to the information of the type and the level of the paging alert tone, included in the BCH message.

A method for controlling a paging alert level of a mobile station in a mobile communication system having a base station which transmits a signal to every mobile station within a cell, comprising the steps of:

receiving information of a type and a level of a paging alert tone of a mobile station from the base station through a BCH, and determining whether the mobile station is located in a paging alert level-restricted area; and

generating a paging alert tone according to the information of the type and the level of the paging alert tone, if the mobile station is located in the paging alert level-restricted area.

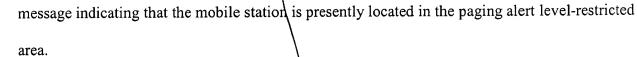
- The method as claimed in claim 2, wherein the BCH message is generated such 3. that the paging alert type is distinguishable according to surrounding features of the base station.
- The method as claimed in claim 2, further comprising the step of rejecting 4. restriction of the paging alert level designated in the BCH message within a predetermined time.

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The method as claimed in claim 2, wherein the mobile station generates an 6. alert tone indicating that the mobile station is presently located in the paging alert level-restricted area.

The method as claimed in claim 2, wherein the mobile station displays a

- The method as claimed in claim 2, wherein the mobile station displays an icon 7. indicating that the mobile station is presently located in the paging alert level-restricted area.
- The method as claimed in claim 2) wherein the mobile station generates a 8. paging alert tone according to a paging alert level designated in the received BCH message, upon receipt of an incoming call.
- The method as claimed in claim 2, wherein the mobile station automatically 9. restores the paging alert level to a paging alert level previously set by a user, when the mobile station moves out of the paging alert level-restricted area

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The method as claimed in claim 9, wherein the mobile station displays a 10. message indicating restoration of the paging alert level preset by the user.

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- 11. The method as claimed in claim 9, wherein the mobile station generates an alert tone indicating restoration of the paging alert level preset by the user.
- A method of controlling a paging alert tone of a mobile station being served by a base station in a mobile telecommunication system, said method comprising the steps of:

paging alert class information in a BCH message of the base station, said
paging alert class information indicating an alert type and an alert level of the paging alert tone;
transmitting the BCH message including the paging alert class information to the mobile
station;

receiving the BCH message from the base station and detecting the paging alert class information; and

setting the paging alert tone of the mobile station in accordance with the received paging alert class information.

- 13. The method of claim 12, further comprising the step of:

 determining whether the mobile station is in an alert level restricted area,

 wherein the received paging alert class information sets the paging alert tone to a

 restricted mode if the mobile station is in the alert level restricted area.
- 20 14. The method of claim 13, further comprising the step of:

 informing an user of the mobile station that the paging alert tone of the mobile station is set to the restricted mode.





- 15. The method of claim 14, further comprising the step of: alerting the user to either accept or reject the restricted mode.
- 16. The method of claim 15, further comprising the steps of:
 rejecting the restricted mode if the user rejects the restricted mode; and
 setting the paging alert tone to the restricted mode if the user does not respond within a
 preset time.